



STATEMENT OF WORK (SOW)

U.S. Probation – Michigan Eastern District Conference/Training/Break Rooms AV Upgrade

BACKGROUND INFORMATION

The U.S. Probation Department – Michigan Eastern District had AV equipment installed in their ninth floor conference room in April of 2016. Since that time a courthouse renovation project has been started and the entire ninth floor is currently undergoing construction and redesign. As part of the redesign, the conference room is being relocated. The conference room will now be located on the south side of the interior courthouse and will have an adjacent break room and training room. The probation conference, break and training rooms are located at 231 W. Lafayette Blvd, Detroit, Michigan, 9th Floor Conference Room.

OBJECTIVE

The purpose of this Statement of Work (SOW) is to provide the District Court with proposals on utilizing as much of the existing AV equipment that was installed in 2016 in the conference room as possible as well as additional equipment design and programming for the training room and break room. The Court will conduct a walkthrough of the Probation conference room on **Friday August 11, 2017 @10:00 AM** and is asking contractors to attend. The Court will discuss the equipment and services requested on attachments.

SCOPE OF WORK

The U.S. District Court – Michigan Eastern District's standard for AV equipment has been to use Crestron, Biamp and Extron. Equivalent equipment can be quoted and will be considered. Equivalent equipment quotes must be submitted with documentation and specifications on how the equipment conforms to existing installs and programming.

The project start date will be mid to late September 2017. Award winning contractor must be able to commit to this time frame for consideration. Please include availability with quote.

The existing conference table will be not used and new table will be purchased. Court will be responsible for installation of electrical requirements and holes cored in floor.

The Court will require that overall system design and programming layout be submitted for approval prior to the beginning of the installation in the courtroom.

Probation Conference/Break/Training Rooms and AV Upgrade:

ATTACHMENT A – Existing Equipment

ATTACHMENT B – New Equipment and Programming

ATTACHMENT C – Current Drawings & Diagrams

ATTACHMENT D – New Conference/Break/Training Room Drawing

ATTACHMENT E – Autocad DWG File will be provided upon request

1. Contractor walkthrough on **Friday August 11, 2017 @10:00 AM** in Detroit Michigan.
2. Quote due on **Wednesday August 23, 2017 @5:00 PM**
3. Quotes must include amount of time needed to complete the project.
4. Review of Quotes and Awarding of contract (Subject to the Availability of Funds)
5. Overall system design and programming layout submitted for approval.
6. Installation and programming of equipment (to be approved by COTR)
7. Testing of Equipment and control system (to be approved by COTR)
8. Confirm ALL items listed on Attachment A (and any and all amendments to Attachment A) have been addressed and completed.
9. Training IT and probation personnel on the use of the equipment.
10. Power Point or equivalent presentation on courtroom operation.
11. Project sign off on completion of conference room by Probation Chief Anthony Merolla

SECURITY REQUIRMENTS

The contractor shall provide competent personnel to perform services under this contract. Work shall be performed in accordance with the best commercial practices, without unnecessary delays or interference with the Court's mission or functions. The Contracting Officer (CO) and the Contracting Officer's Technical Representative (COTR) reserves the right to judge the adequacy of the services provided, and may require the contractor to replace the support resource(s), if deemed inadequate. Formal security clearances are required prior to the start of any work. Personnel contracted by the Courthouse to provide services covered under this contract will be subjected to security background checks and U.S. Marshal daily inspections when entering the Courthouse. The contractor shall be responsible for completing a contractor clearance document for the contractor's employees performing said services. Upon completion, the document should be returned via fax or email to the Contracting Officer, Bill Truskowski, at 313-202-5843. This document enables the Court to complete a background check on the worker(s) provided by the contractor. The document **MUST** be completed prior to the contract work start date. Under no circumstances shall any court data and/or property be taken or removed from the court.

DOCUMENTATION REQUIREMENTS

The Contracting Officer (CO) will issue the winning bidder a purchase order based on the Statement of Work. The Court's purchase order will be the ONLY governing document for the procurement of goods and services from the contractor. The contractor shall be responsible for providing an invoice billed to the Court with net 30 day payment terms. The Court does not pay for services prior to them being rendered. Upon receipt of the invoice by the Court, and verification that work has been completed by the Court's Technical Representative, payment will be rendered to the contractor for the specified amount.

CONTRACT CLAUSES

Once the Award has been made, the Court reserves the right to cancel the contract with the contractor for failure to complete the work as specified in this agreement. The person(s) assigned by the contractor to perform the specified work shall not be deemed a U.S. District Court Employee, but shall be an employee of the contractor. The contractor warrants that its employees are adequately covered by workers compensation insurance and that it assumes total responsibility to pay all applicable federal, state and local withholding taxes and unemployment taxes, as well as social security, state disability insurance and all other payroll charges. The contract further warrants that the person(s) performing the work are certified and knowledgeable enough complete the work as specified in the statement of work. Other pertinent information will be provided to the contractor upon acceptance of the winning bid proposal. This information will include the following: 1) exact start and end time of daily work hours, 2) miscellaneous information (example: driving directions, and parking information).

CONTRACT MANAGEMENT

The administration of this contract will require coordination between the contracting officer, the COTR, and the contractor. The individuals cited below will be the court's primary points of contact during the performance period. In no event shall any understanding or agreement, modification, change order, or other matter in deviation from the terms of this contract between the contractor and a person other than the contracting officer be effective or binding upon the Court. All such actions must be formalized by a proper contractual document and signed by all parties.

CONTRACTING OFFICER: All administration of this contract will be effected by the contracting officer:

Bill Truskowski – Procurement Officer
United States District Court
231 West Lafayette Blvd – Room 827
Detroit, MI 48226
Phone: 313-234-5362
Fax: 313-202-5843
Email: william_truskowski@mied.uscourts.gov

Written communications shall make reference to the contract title and shall be mailed to the above address. The contracting officer is authorized to certify invoices for payment in accordance with the terms of this contract.

CONTRACTING OFFICER TECHNICAL REPRESENTATIVE (COTR):

The COTR for this contract is:

Jay Theisen – Systems Manager
United States District Court
231 West Lafayette Blvd.
Detroit, MI 48226
Phone: 313-234-2618
Email: james_theisen@mied.uscourts.gov

Upon award, the COTR will be responsible for coordinating the installation and performance of services with regards to this contract. **However, the COTR shall not be authorized to change any terms and conditions of the resultant contract, including, but not limited to, price.**

Responsibilities of the COTR include:

1. Monitoring the performance of the contractor's employee(s) under the contract to ensure compliance with the contract requirements.
2. Ensuring that changes in work under the contract are not initiated before written authorization or modification is issued by the contracting officer.
3. Providing interpretation of the meaning of project specifications.
4. Accepting the contractor's equipment and services.

LIMITED USE OF DATA

Performance of this contract may require the contractor's employee(s) to access and use data and information proprietary to the government, which is of such a nature that its dissemination or use, other than in performance of this contract, would be adverse to the interest of the government and/or others. The contractor and/or contractor personnel shall not divulge or release data or information developed or obtained in performance of this contract. The contractor and its employees shall not use, disclose, or reproduce proprietary data other than as required in the performance of this contract.

PLACE OF PERFORMANCE

Delivery of equipment/services reflected on this contract shall be performed at the U.S. District Court, 231 W. Lafayette Blvd, Detroit, MI 48226, 9th Floor Conference Room. Work will be performed during hours that do not impact the activities of the Court or adjacent rooms. Performance may take place during normal work hours (8:00 am to 5:00 pm). However, installation must be restricted to dates that will not interfere with the Probation's schedule. Dates will be provided to the contractor upon successful award of contract.

TYPE OF CONTRACT

This contract shall be awarded on a **Technically Sound/Best Price and Past Performance Basis**. The awarding of this contract is subject to the availability of funds and approval from our Chief Judge. Winning contractor must be available to meet with construction and millwork contractor to review and discuss any and all AV equipment needs for the modification and construction of witness box, lectern and attorney tables.

PROPOSAL DUE DATE

Proposals are due no later than **Wednesday August 23, 2017 @5:00 PM**. Offers will be subject to FAR 52.214-7, "Late Submissions, Modifications, and Withdrawal of Bids".

Submit a copy of the proposal, via email or fax to:

Bill Truskowski – Contracting Officer
United States District Court
231 West Lafayette Blvd – Room 827
Detroit, MI 48226
Phone: 313-234-5362 Fax: 313-202-5843
Email: william_truskowski@mied.uscourts.gov

Products and Services Detail

Probation Conference Room Head End Rack

<u>Line #</u>	<u>Model #</u>	<u>Type</u>	<u>Mfg</u>	<u>Description</u>	<u>Qty</u>
1	DMPS3-300-C	Equ	CRESTRON	3-Series® DigitalMedia™ Presentation System 300	1
2	PW-4818DU	Equ	CRESTRON	90W PoDM Power Pack for DMPS	1
3	TesiraFORTE VI	Equ	BIAMP	TesiraFORTE DSP fixed I/O server with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, Sona™ Acoustic Echo Cancellation (AEC) technology (all 12 inputs), and 2 channel VoIP interface	1
4	CSA180Z	Equ	JBL	1 x 80W DriveCore Amplifier, Fanless, 40/80/70V/100V, 1U Half-Rack, Mounting kit	1
5	CONTROL 24CT	Equ	JBL	4 CEILING SPKR W/X-FORMER (2 PER CTN)	4
6	DBT1713UD	Equ	DENON PRO	Universal Audio / Video Player	1
7	CUSTOM	Equ	MIDDLE ATLANTIC	Power/Hardware Budget for OFE Rack	1
8	CTS-SX80-IP40-K9	Equ	CISCO	Cisco SX80 Codec, Precision 4x Cam, Touch 10	1
9	CON-PSRN-CTSSX84X	Equ	CISCO	PRTNR TP VID 8X5XNBD Cisco SX80 Codec, Prec4xCam T10TabMic60	1

Conference Room Table

<u>Line #</u>	<u>Model #</u>	<u>Type</u>	<u>Mfg</u>	<u>Description</u>	<u>Qty</u>
10	FT-TS600-B	Equ	CRESTRON	FlipTop™ Touch Screen, Black Anodized	1
11	CBLR2-HD	Equ	CRESTRON	Cable Retractor for FlipTops™, HDMI®	1
12	CBLR2-VGA	Equ	CRESTRON	Cable Retractor for FlipTops™, VGA	1
13	CBLR2-AUDIO	Equ	CRESTRON	Cable Retractor for FlipTops™, Audio	1
14	CBLR2-CAT5E	Equ	CRESTRON	Cable Retractor for FlipTops™, CAT5e	1
15	FTA-PWR-102	Equ	CRESTRON	FlipTop™ AC Power Outlet Module, Dual, US NEMA 5, Type B	1
16	DM-TX-201-C	Equ	CRESTRON	DigitalMedia 8G+® Transmitter 201	1
17	MX396/C-TRI	Equ	SHURE	Tri-Element Mic, Adjustable to 300 Degrees or 360 Degrees Coverage, Back or Bottom Exit Cable, Mute Output, LED Input, require three mixer channels	2
18	MX396/C-DUAL	Equ	SHURE	Dual-Element 0-180 degree, Back or Bottom Exit Cable, Mute Output, LED Input, requires two mixer channels	1

Conference Room Display

<u>Line #</u>	<u>Model #</u>	<u>Type</u>	<u>Mfg</u>	<u>Description</u>	<u>Qty</u>
19	E805	Equ	NEC	E805 - 80" LED LCD Public Display Monitor, 1920 x 1080 (FHD), 350 cd/m2 panel, Full bidirectional LAN/RS-232 Control, HDMI x2, DisplayPort, DVI-D, VGA, OPS Option Slot, Integrated 10W x 2 speakers, 3 year standard warranty, Stand not included.	1
20	XTM1U	Equ	CHIEF	Micro-Adjust Tilt Wall Mount, X-Large	1
21	DM-RMC-SCALER-C	Equ	CRESTRON	DigitalMedia 8G+® Receiver & Room Controller w/Scaler	1

TESIRAFORTE AVB CI - BIAMP TesiraFORT DSP fixed I/O server with 12 analog inputs, 8 analog outputs, 8 channels configurable

232-ATSC 4- CONTEMPORARY RESEARCH Module with Rack Mount

C2N-IO - CRESTRON Control Port Expansion Module

<u>Line #</u>	<u>Model #</u>	<u>Type</u>	<u>Mfg</u>	<u>Description</u>	<u>Qty</u>	<u>Discounted</u>	<u>Extended</u>
1	FT-TS600-B	Equ	CRESTRON	FlipTop™ Touch Screen, Black Anodized	1	\$1,420.45	\$1,420.45
2	CBLR2-HD	Equ	CRESTRON	Cable Retractor for FlipTops™, HDMI®	1	\$255.68	\$255.68
3	CBLR2-VGA	Equ	CRESTRON	Cable Retractor for FlipTops™, VGA	1	\$255.68	\$255.68
4	CBLR2-AUDIO	Equ	CRESTRON	Cable Retractor for FlipTops™, Audio	1	\$255.68	\$255.68
5	CBLR2-CAT5E	Equ	CRESTRON	Cable Retractor for FlipTops™, CAT5e	1	\$255.68	\$255.68
6	FTA-PWR-102	Equ	CRESTRON	FlipTop™ AC Power Outlet Module, Dual, US NEMA 5, Type B	1	\$90.91	\$90.91
7	DM-TX-201-C	Equ	CRESTRON	DigitalMedia 8G+® Transmitter 201	1	\$738.64	\$738.64



ATTACHMENT B

Probation – Conference/Break/Training Rooms AV Upgrade

- The U.S. District Court – Michigan Eastern District's standard for courtroom AV equipment has been to use Crestron, Biamp and Extron. Equivalent equipment can be quoted and will be considered. Equivalent equipment quotes must be submitted with documentation and specifications on how the equipment conforms to existing installs and programming.
- System to be thoroughly tested and vetted by AV contractor before handoff to court.
- Court to receive ALL source code and must approve ALL programming code
- Presentation (PPS or equivalent) that can be provided to Probation for operational purposes.
- An Xpanel.exe of the control panel needs to be provided by contractor.
- Sign off on conference room completion by Probation Chief Anthony Merolla.

Main Conference Room

- Utilize existing equipment where applicable
- Reprogram Touchscreens to be more user friendly, including updated sx80 controls and better voip integration
- Add audio/video output and control option to output to Galley/Training room

Main conference room audio

- Replace hardwired mics with wireless microphones. Requirements and model to be determined at walkthrough.

Galley

- 3 TV's with mounts
- Small/Simple control system and matrix that can turn on TV's and choose from 5 hdmi (analog audio optional) inputs with individual audio control for TV's if possible. This will be located on counter in the galley and should output to all 3 TV's. Inputs aside from Conference room feed will be TBD, e.g. apple tv, bluray player, etc.

Training Room

- Large main TV and smaller secondary TV with swivel mount in middle of room (sizes TBD at walk through).
- Small/Simple control system and matrix that can turn on TV's and choose from 5 hdmi (analog audio optional) inputs with individual audio control for TV's if

possible. This will be located at training desk. Inputs aside from Conference room feed will be training computer and Bluray player, and misc.

Option 1: Training Room video change

- Install 84" Surface Hub in Training room instead of standard TV. Various inputs and outputs including conference room feed and cable retractor inputs should remain the same. Skype/Office infrastructure for Hub to be provided by MIED.
- Video output of Surface hub to be duplicated on secondary TV on wall.

Option 2: Main Conference room video change

- Install 84" Surface Hub in Main Conference room instead of already existing TV. Various inputs including reprogramming would remain the same, unless a better solution is determined at walk through. Skype/Office infrastructure for Hub to be provided by MIED.
- Video/audio outputs would still need to be extended to Galley/Training Room

US DISTRICT COURT

**US DISTRICT - MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226**

**PROBATION CONFERENCE ROOM
FINAL SYSTEM DRAWINGS - JANUARY 8, 2016**



AVI PROJECT #: 915231

PAGE	DESCRIPTION
	COVER SHEET
AV000	INDEX SHEET
AV001	AV SYMBOLS & NOTES
AV100	TABLE LAYOUT
AV200	MONITOR ELEVATION
AV500	RACK LAYOUT
AV700	CONNECTOR DETAILS
AV701	VIDEO FLOW DIAGRAM
AV702	AUDIO FLOW DIAGRAM
AV703	CONTROL FLOW DIAGRAM
AV704	POWER FLOW DIAGRAM



US DISTRICT
COURT

<input type="checkbox"/> PROPOSAL	<input type="checkbox"/> INTEGRATION
<input type="checkbox"/> SUBMITTAL	<input checked="" type="checkbox"/> AS BUILT
<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> OTHER:

#	DATE	DESCRIPTION
1	09/24/15	ADDED 2ND DUAL BNC & TUNER
2	11/03/15	ADDED HAMPTSDERIA CI & RACK
3	11/05/15	ADDED TABLE LAYOUT
4	11/12/15	ADDED INTEGRATION DETAILS
5	11/16/15	INTEGRATION
6	12/1/15	AS BUILT

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ISSUE: AS BUILT
CLIENT: US DISTRICT COURT
PROJECT #: 915231
ENGINEER: SR
DRAFTER: R. DELANEY
CHECKED BY:
SCALE: NA
SYSTEM ID #:
FILE SAVE AS: 915231_PLANS

PROJECT NAME:
PROBATION
CONFERENCE ROOM

SHEET TITLE:
INDEX SHEET

DWG NUMBER:
AV000



DETROIT

3750 HAZARDY ROAD, SUITE C2
FARMINGTON HILLS, MI 48331
PHONE: 248-467-4100 FAX: 248-457-4551
www.avi-solutions.com

AV SYSTEM DESIGNED & ENGINEERED FOR:

US DISTRICT COURT

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

☐ PROPOSAL ☐ INTEGRATION
☐ SUBMITTAL ☒ AS BUILT
☐ PRELIMINARY ☐ OTHER:

#	DATE	DESCRIPTION
1	05/20/15	ADDENDUM NO. 1 & 2
2	11/02/15	ADDENDUM NO. 3 & 4
3	11/02/15	ADDENDUM NO. 5 & 6
4	11/02/15	ADDENDUM NO. 7 & 8
5	11/02/15	ADDENDUM NO. 9 & 10
6	11/02/15	ADDENDUM NO. 11 & 12

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WITHOUT PRIOR WRITTEN CONSENT. IF THE
PROPOSED SYSTEMS NOT PURCHASED THIS
DRAWING MUST BE RETURNED TO AVI SYSTEMS.

ISSUED AS BUILT
CLIENT: US DISTRICT COURT
PROJECT #: 91231
ENGINEER: J. J. J. J.
DRAFTER: K. DELANEY
CHECKED BY:
SCALE: N/A
SYSTEM P:
FILE NAME: 03/11/2015_PLA10

PROJECT NAME:
PROBATION
CONFERENCE ROOM

SHEET TITLE:
AV SYMBOLS & NOTES

DWG NUMBER:
AV001

AV SYMBOLS:

DEVICE TYPE
X #
MOUNTING HEIGHT

DEVICE TYPE:

12x12x4 = 12" x 12" x 4" SCREW COVER JUNCTION BOX
8x8x4 = 8" x 8" x 4" SCREW COVER JUNCTION BOX
6x6x4 = 6" x 6" x 4" SCREW COVER JUNCTION BOX
4SQ/1G = 4" x 4" x 2-1/2" SQUARE BOX WITH A 1-GANG MUD RING
4SQ/2G = 4" x 4" x 2-1/2" SQUARE BOX WITH A 2-GANG MUD RING
1G BOX = 1-GANG 3-1/2" DEEP ELECTRICAL BOX
2G BOX = 2-GANG 3-1/2" DEEP ELECTRICAL BOX
3G BOX = 3-GANG 3-1/2" DEEP ELECTRICAL BOX
4G BOX = 4-GANG 3-1/2" DEEP ELECTRICAL BOX
MODEL NUMBER OF THE EQUIPMENT

X = DEVICE ID: / # = DEVICE NUMBER

WB = WALL BOX
CB = CEILING BOX
FB = FLOOR BOX
LVC = LOW VOLTAGE CONTROLLER
PT = PASS-THRU
TP = TOUCH PANEL

MOUNTING HEIGHT:

xx" AFF - INCHES ABOVE FINISH FLOOR
xx" BFC - INCHES BELOW FINISH CEILING
OUTLET HT - TYPICAL BUILDING OUTLET HEIGHT
SWITCH HT - TYPICAL BUILDING SWITCH HEIGHT
CEILING - MOUNTED IN THE CEILING
FLOOR - MOUNTED IN THE FLOOR

ALL MEASUREMENTS ARE FROM TO THE CENTER OF DEVICE

QUAD RECEPTACLE

AMPS # HEIGHT
= NUMBER OF AMPS REQUIRED
= MOUNTING HEIGHT OR LOCATION
= NUMBER OF RECEPTACLES REQUIRED

DUPLEX RECEPTACLE

AMPS # HEIGHT
= NUMBER OF AMPS REQUIRED
= NUMBER OF RECEPTACLES REQUIRED
= MOUNTING HEIGHT OR LOCATION

NETWORK CONNECTION

TYPE # HEIGHT
= TYPE OF CONNECTIONS REQUIRED
= NUMBER OF CONNECTIONS REQUIRED
= MOUNTING HEIGHT OR LOCATION

ANALOG PHONE CONNECTION

TYPE # HEIGHT
= TYPE OF CONNECTIONS REQUIRED
= NUMBER OF CONNECTIONS REQUIRED
= MOUNTING HEIGHT OR LOCATION

RF CONNECTION

RF # HEIGHT
= MOUNTING HEIGHT OR LOCATION
= NUMBER OF OFE RF CONNECTIONS REQUIRED

CEILING SPEAKER

S #
= SPEAKER NUMBER

CEILING MICROPHONE

M #
= MICROPHONE NUMBER

ELECTRICAL NOTES:

- 1). IF NO AMP IS SHOWN THAT RECEPTACLE IS FOR GENERAL PURPOSE.
- 2). ALL CIRCUITS MUST ORIGINATE FROM THE SAME PANELBOARD TO MINIMIZE THE DIFFERENCE IN GROUND POTENTIALS.
- 3). NO OTHER NON AV DEVICES (LOADS) SHOULD BE SHARING CIRCUITS WITH THE AV SYSTEM.
- 4). AUXILIARY EQUIPMENT GROUNDING (SAFETY) CONDUCTOR SHOULD BE INCLUDED WITH INDIVIDUAL BRANCH CIRCUITS.
- 5). ELECTRICAL FEEDS ARE NOT TO BE RUN PARALLEL WITH AV CONDUITS. IF 20AMP CIRCUIT MUST BE RUN PARALLEL TO AV CONDUITS A MINIMUM OF 24 INCHES OF SEPARATION MUST BE MAINTAINED.
- 6). ALL POWER, CONDUIT AND BOXES ARE TO BE REVIEWED BY THE ELECTRICAL CONTRACTOR FOR CODE COMPLIANCE.

GENERAL NOTES:

1). ALL NETWORK, PHONE, RF FEEDS AND POWER SYMBOLS SHOWN ON THE DRAWINGS ARE DEDICATED TO SPECIFIC AV EQUIPMENT. REFER TO ELECTRICAL, IT AND ARCHITECT'S DRAWINGS FOR ADDITIONAL REQUIREMENTS.

2). DRAWINGS ARE NOT TO BE USED FOR ARCHITECTURAL OR ENGINEER PURPOSES. DRAWINGS SHOULD ONLY BE USED FOR AV SYSTEM INSTALLATION & COORDINATION WITH OTHER CONTRACTORS.

3). ALL BOXES, CONDUITS, POWER, NETWORK, CATV FEEDS AND FIRESTOP ARE PROVIDED BY OTHER CONTRACTORS UNLESS OTHERWISE NOTED.

4). ALL MEASUREMENTS ARE TO THE CENTER OF DEVICE UNLESS OTHERWISE NOTED. DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT.

5). WHERE EXACT DIMENSIONS ARE NOT INDICATED THE SCALE OF DRAWING IS SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF EQUIPMENT, BOXES, POWER, NETWORK & ETC. ANY DEVIATIONS CAUSING CHANGES EXCEEDING 3 INCHES MUST BE COORDINATED WITH AVI & CUSTOMER.

6). CONDUITS TO HAVE THE MOST DIRECT PATHWAY. MAINTAIN MINIMUM BEND RADIUS OF 10X OD FOR ALL CONDUITS.

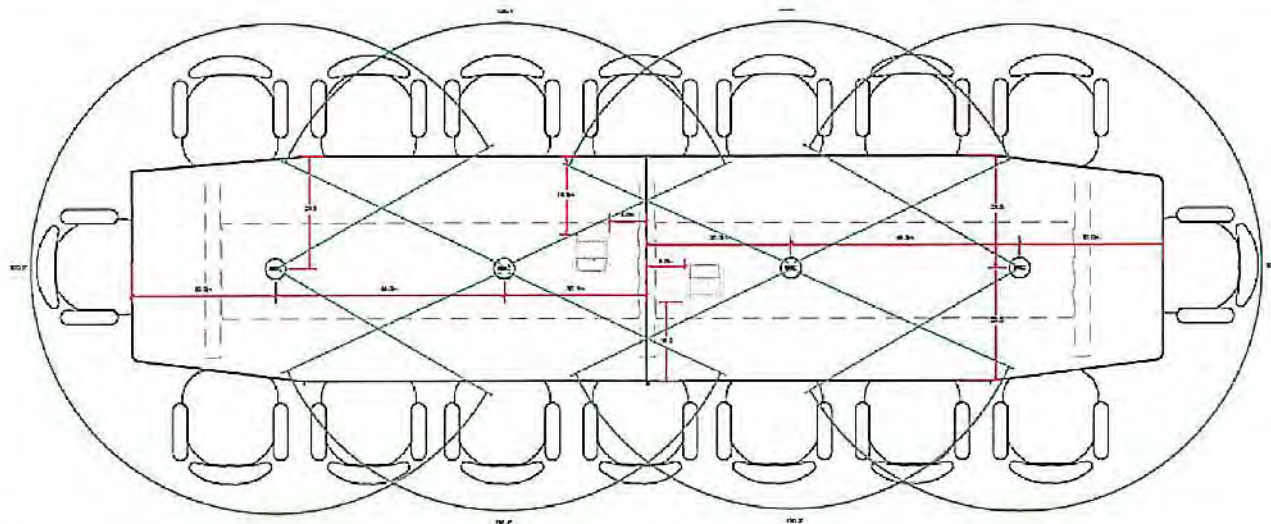
7). THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100 FEET OF STRAIGHT CONDUIT AND/OR ONE PULL BOX FOR MORE THAN TWO 90° BENDS OR LESSER BENDS TOTALING 180° IN A CONDUIT RUN. ALL PULL BOXES MUST BE MOUNTED IN ACCESSIBLE SPACE.

8). CONDUIT STUB UP SLEEVES THROUGH SLABS 3 INCHES ABOVE FINISH FLOOR AND TO HAVE PLASTIC BUSHING.

9). GROUND ALL CONDUITS, BOXES PER THE MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

10). ALL CONDUITS SHALL BE FURNISHED WITH A PULL STRING.

11). CONDUIT PATHWAYS FOR AV CABLES TO BE PROVIDED THRU INACCESSIBLE SPACES. ACCESSIBLE SPACES REQUIRED RINGS OR J-HOOKS FOR SUPPORTING AV WIRES SPACED AT 6FT APART OR PER LOCAL CODES IF APPLICABLE. CONDUIT & WIRE SUPPORTS PROVIDED BY ELECTRICAL CONTRACTOR.



USDC Probation Conference Rm

Table Cable Cubby/Touch Screen/Mic Layout w/Pickup Patterns -
Recommended (top) / Alternate (bottom)

(Please sign the accepted layout version or red line drawings with requested changes)

Top Version Drawing Accepted -
Name: _____

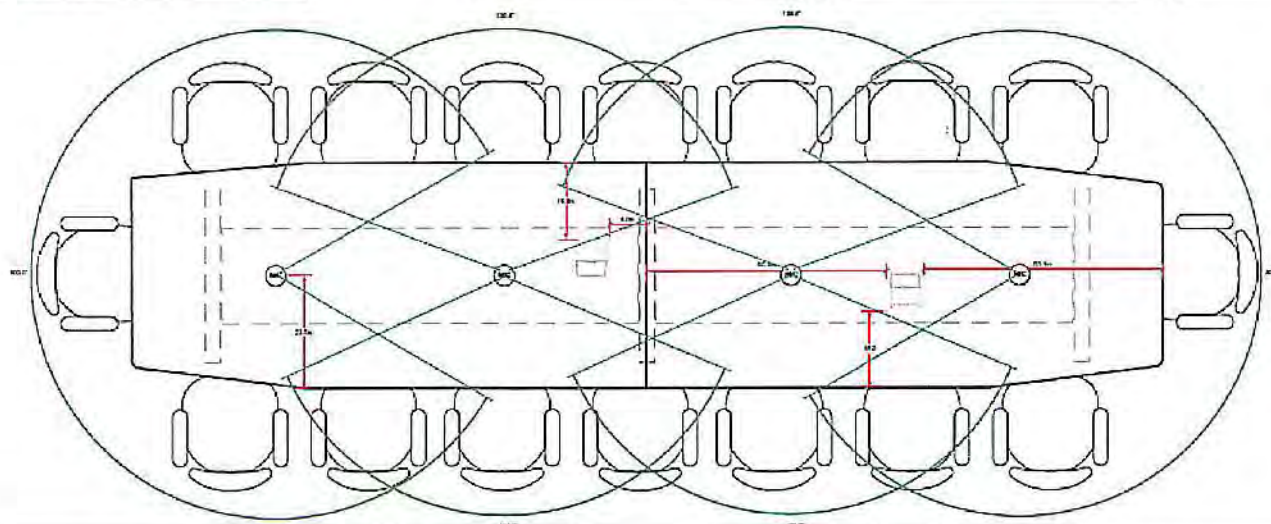
Signed: _____

Date: _____

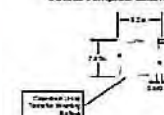
Bottom Version Drawing Accepted -
Name: _____

Signed: _____

Date: _____



Cable Tray Template Example



DETROIT

37266 HAGGERTY ROAD, SUITE C2
FARMINGTON HILLS, MI 48331
PHONE: 248-687-6160 FAX: 248-687-6161
www.avisystems.com

AV SYSTEM DESIGNED & ENGINEERED FOR:

US DISTRICT
COURT

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

☐ PROPOSAL ☐ INTEGRATION
☐ SUBMITTAL ☒ AS BUILT
☐ PRELIMINARY ☐ OTHER:

REVISIONS

#	DATE	DESCRIPTION
1	09/28/13	ADDED 2ND DUAL MIC & TUNER
2	11/02/13	ADDED SHAMPEL/PERKINS & RACK
3	11/02/13	ADDED TABLE LAYOUT
4	11/18/13	ADDED PITCH RATION DETAILS
5	11/18/13	INTEGRATION
6	12/11	AS BUILT

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SUPERVISION OF THE SYSTEM OR EQUIPMENT
WITHOUT PRIOR WRITTEN CONSENT. IF THE
PROPOSED SYSTEM IS NOT PURCHASED THIS
DRAWING MUST BE RETURNED TO AVI SYSTEMS.

ISSUE: AS BUILT

CLIENT: US DISTRICT COURT

PROJECT #: 615231

END USER: SM

CREATED BY: M. DELANEY

CHECKED BY:

SCALE:

SYSTEM ID #:

FILE NAME: 615231_PLANS

PROJECT NAME:

PROBATION
CONFERENCE ROOM

SHEET TITLE:
TABLE LAYOUT

DWG NUMBER:

AV100



AV SYSTEM DESIGNED & ENGINEERED FOR

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

☐ PROPOSAL ☐ INTEGRATION
☐ SUBMITTAL ☒ AS BUILT
☐ PRELIMINARY ☐ OTHER:

REVISIONS

#	DATE	DESCRIPTION
1	09/29/15	ADDED 2ND DUAL NIC & TUNER
2	11/02/15	ADDED DIAMETERSEXA C1 & PUCK
3	11/02/15	ADDED TABLE LAYOUT
4	11/02/15	ADDED INTEGRATION DETAILS
5	11/16/15	INTEGRATION
6	1/8/16	6.5 DUALT

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ISSUE: AS BUILT

CLIENT: US DISTRICT COURT

PROJECT #: 313259

ENDER: 58

DRAFTER: K. DELANEY

CHECKED BY:

SCALE:

SYSTEM ID #:

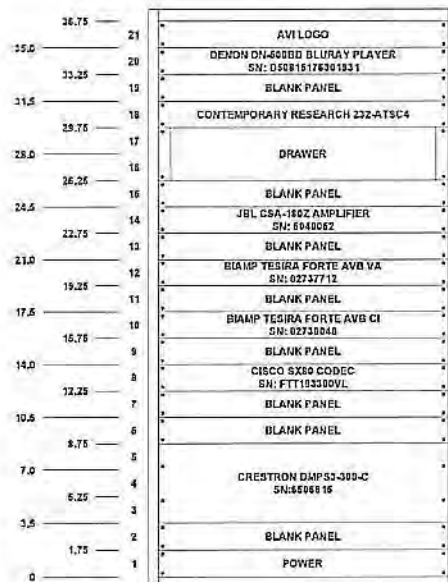
FILE SAVE AS: 01

PROJECT NAME: PROBATION
CONFERENCE ROOM

SHEET TITLE:
RACK LAYOUT

FOOD NUMBER:

AV500

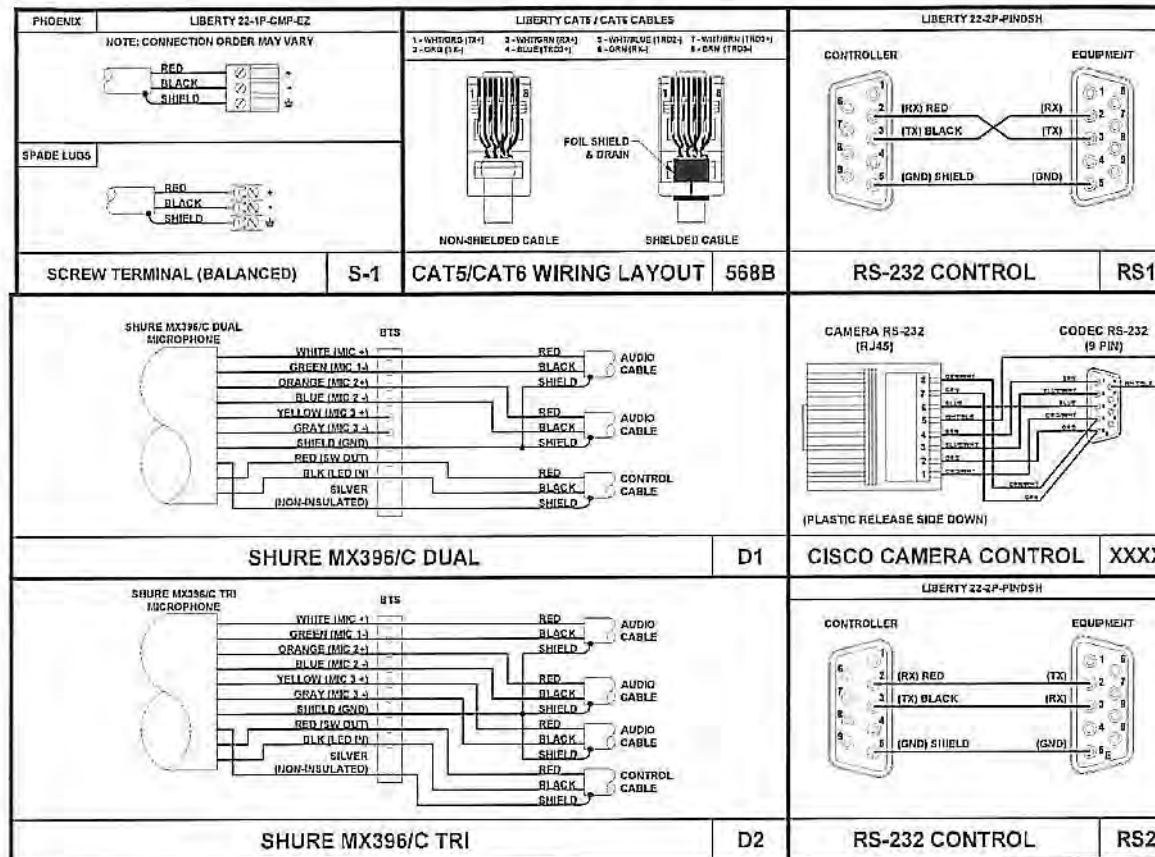


CABLE TAG BREAK DOWN

SIGNAL	#	DETAIL
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SIGNAL	#
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DIGITAL VIDEO	DV	001
RGBHV	RGB	001
COMPONENT	YRB	001
S-VIDEO	SV	001
VIDEO	VID	001
RF	RF	001
FIBER	FIB	001
SPEAKER	S	001
USB	USB	001
IR	IR	001
POTS	TEL	001
LINK	LNK	001
POWER	PWR	001
MICROPHONE	M	001
LINE	L	001
INTERCOM	IC	001
CRESNET/AXLINK	NET	001
RS232/RS422/RS485	RS	001
SERIAL/IR	SER	001
I/O BIT	IO	001
CONTACT CLOSURE	CC	001
AVB	AVB	001
HDT	HDT	001
LAN	LAN	001



DETROIT

3725 HAGGERTY ROAD, SUITE C2
PARKINGTON HILLS, MI 48351
PHONE: 248-867-4160 FAX: 248-467-4161
www.avsystems.com

AV SYSTEM DESIGNED & ENGINEERED FOR:

US DISTRICT
COURT

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

☐ PROPOSAL ☐ INTEGRATION
☐ SUBMITTAL ☒ AS BUILT
☐ PRELIMINARY ☐ OTHER:

#	DATE	DESCRIPTION
1	05/20/13	ADDED 2ND DUAL MIC & FUNK
2	11/01/13	ADDED DRAWING (EQUIPMENT & RACK)
3	11/01/13	ADDED TABLE LAYOUT
4	11/12/13	ADDED INTEGRATION DETAILS
5	11/12/13	INTERGRATION
6	10/11/13	AS BUILT

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ISSUE: AS BUILT
CLIENT: US DISTRICT COURT
PROJECT #: 01531
DRAWN BY: SD
DRAFTER: R. DELANEY
CHECKED BY:
SCALE: N/A
SYSTEM ID #:
FILE SAVE AS: 01531_PLANS

PROJECT NAME:
PROBATION
CONFERENCE ROOM

SHEET TITLE:
CONNECTOR DETAILS

DWG NUMBER:
AV700



AN SYSTEM DESIGNED & ENGINEERED FOR

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

- | | |
|--------------------------------------|--|
| <input type="checkbox"/> PROPOSAL | <input type="checkbox"/> INTEGRATION |
| <input type="checkbox"/> SUBMITTAL | <input checked="" type="checkbox"/> AS BUILT |
| <input type="checkbox"/> PRELIMINARY | <input type="checkbox"/> OTHER: |

REVISIONS

[illegible]

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ISSUE: AS BUILT

CLIENT: US DISTRICT COURT

PROJECT #: 512251

ENCLOSURE: 39

DRAFTER: A. DELANEY
CHECKED BY:

SCAFF: HIN

SYSTEM ID #

FILE NAME AS: 915291_PLAUS

PROJECT NAME:

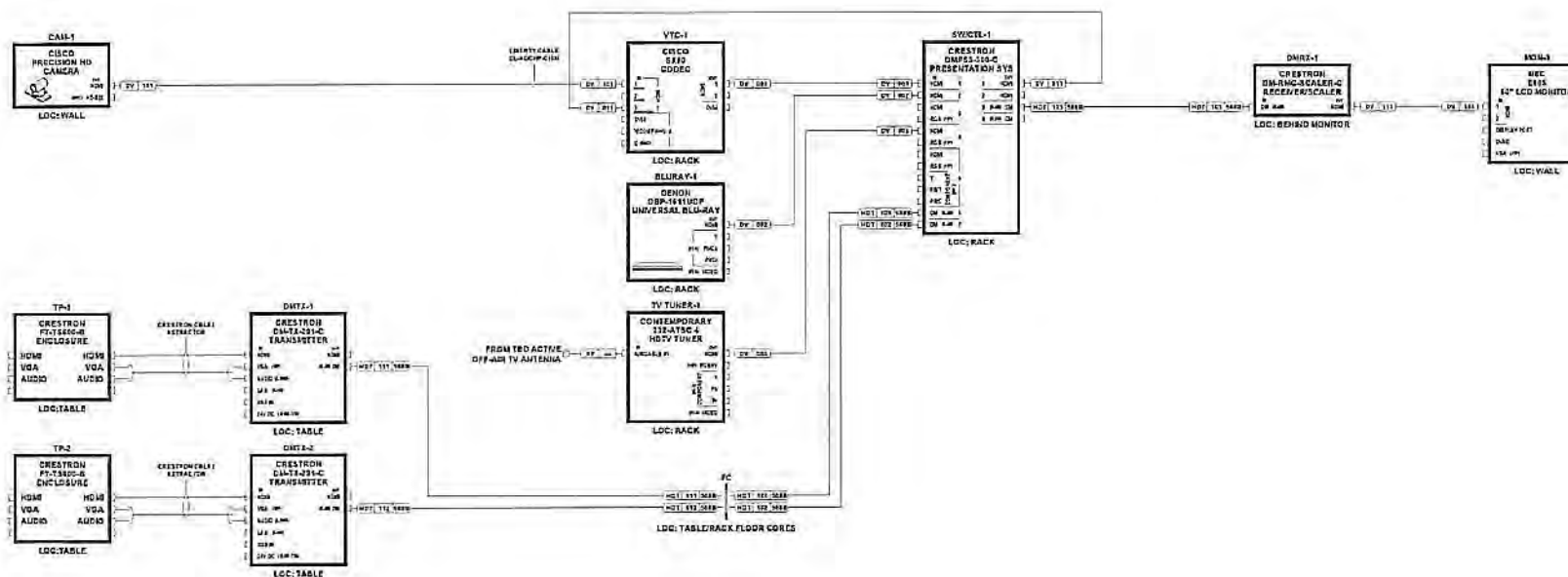
PROBATION
CONFERENCE ROOM

THREE TITLES

VIDEO FLOW DIAGRAM

1

AV701





27220 MAGGERTY ROAD, SUITE C2
FARMINGTON HILLS, MI 48331
PHONE: 248-857-6150 FAX: 248-857-6151
www.avsystems.com

US DISTRICT
COURT

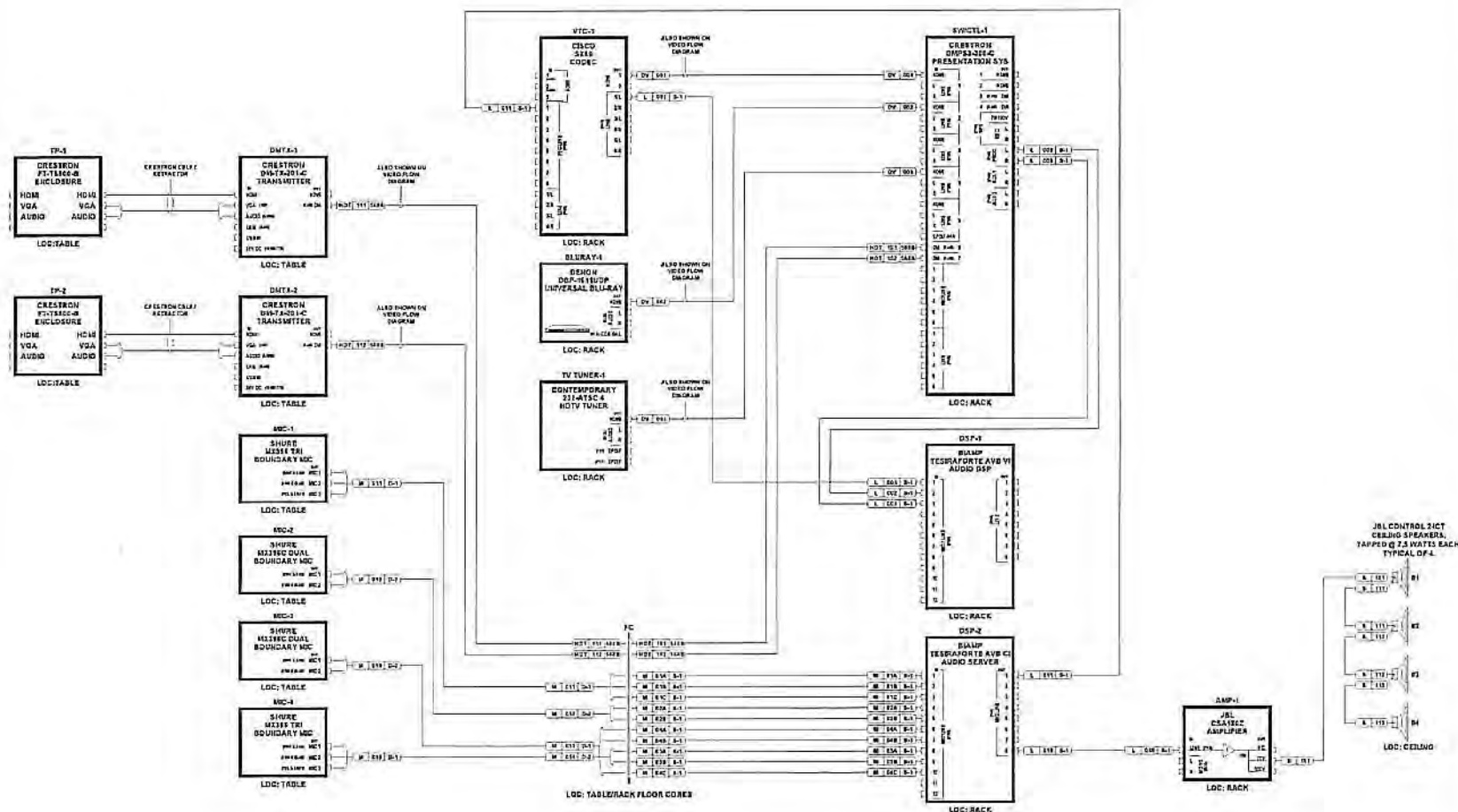
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<input type="checkbox"/> SUBMITTAL	<input checked="" type="checkbox"/> AS BUILT
<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> OTHER:

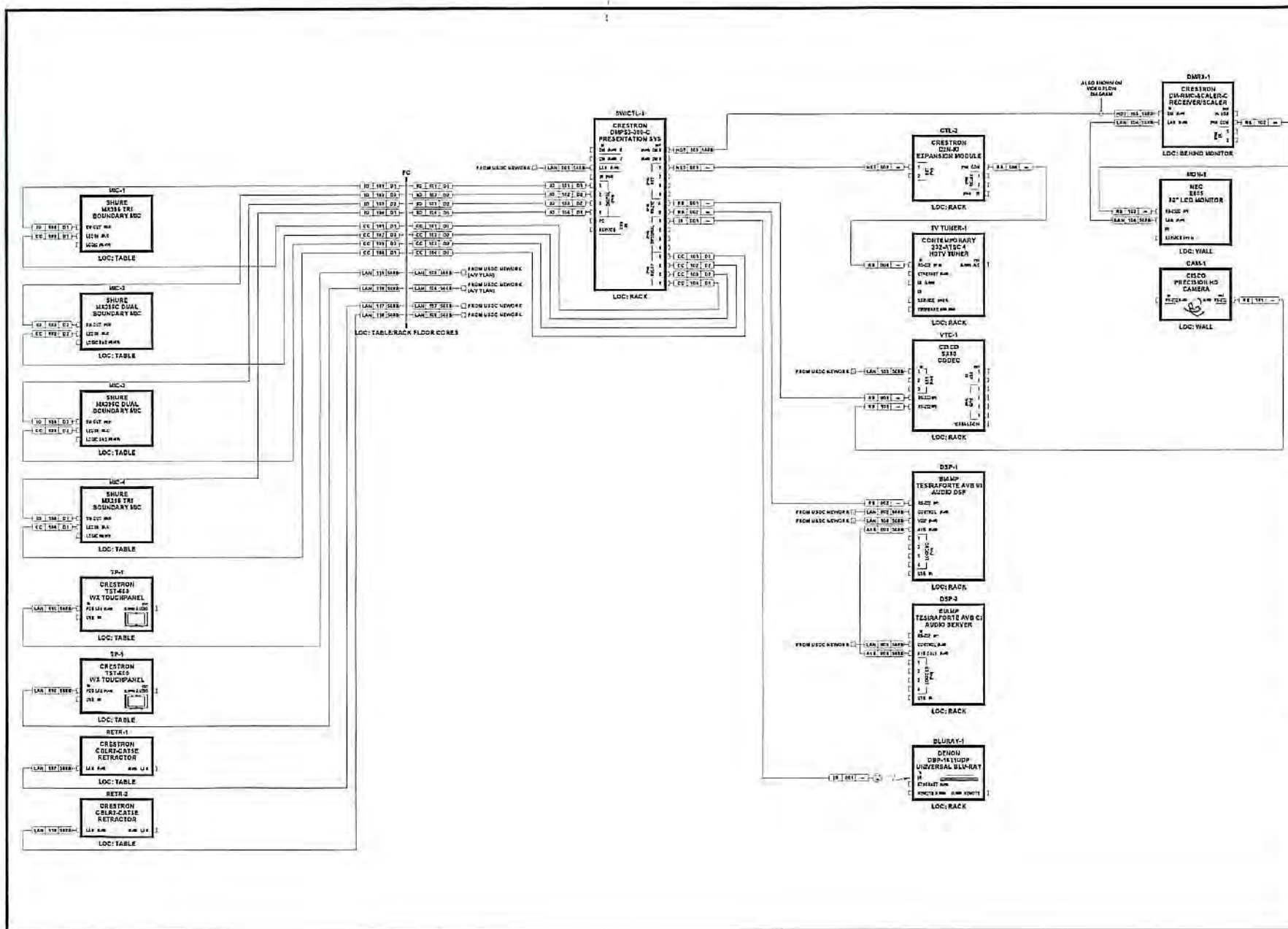
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PROBATION
CONFERENCE ROOM

QING NUMBER: _____

AV702





DETROIT

37550 MADONN ROAD, SUITE C2
FARMINGTON HILLS, MI 48331
PHONE: 248-257-4160 FAX: 248-257-4161
www.avisystems.com

AV SYSTEM DESIGNED & ENGINEERED FOR:

US DISTRICT
COURT

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48225

☐ PROPOSAL ☐ INTEGRATION
☐ SUBMITTAL ☒ AS BUILT
☐ PRELIMINARY ☐ OTHER:

REVISIONS	DATE	DESCRIPTION
1	09/28/13	ADDED 2ND DUAL VSD & TUNER
2	11/02/13	ADDED DUAL PRECISIONS CAMERA
3	11/02/13	ADDED TABLE LAYOUT
4	11/02/13	ADDED INTEGRATION DETAILS
5	11/02/13	INTEGRATION
6	11/16/13	AS BUILT

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AS BUILT
CLIENT: US DISTRICT COURT
PROJECT: W. DISTRICT
ENGINEER: DS
DRAFTER: R. DELANEY
CHECKED BY:
SCALE: 1/8"
SYSTEM ID: P
FILE SAVE AS: 010311_PLANS
PROJECT NAME:
PROBATION
CONFERENCE ROOM
SHEET TITLE:
CONTROL FLOW DIAGRAM
DWS NUMBER:
AV703



AN SYSTEM DESIGNED & ENGINEERED FOR

MI EASTERN DISTRICT
231 W. LAFAYETTE BLVD
DETROIT, MI 48226

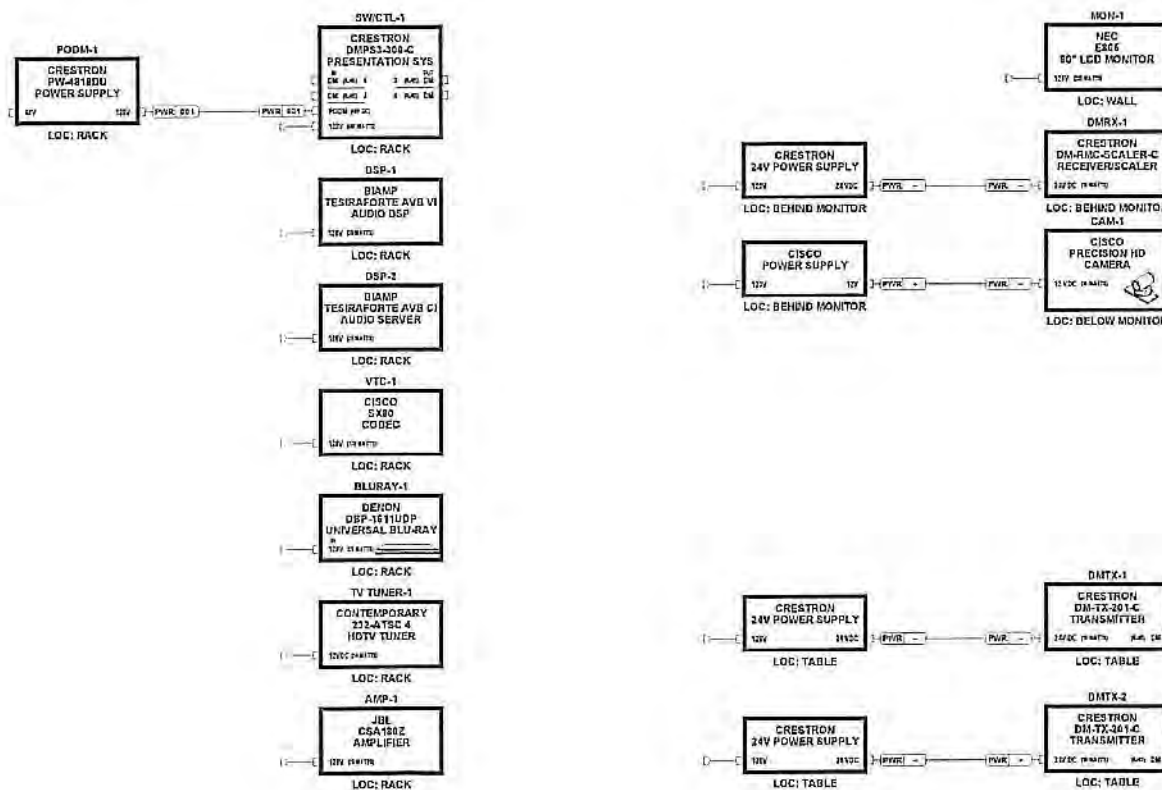
- | | |
|--------------------------------------|--|
| <input type="checkbox"/> PROPOSAL | <input type="checkbox"/> INTEGRATION |
| <input type="checkbox"/> SUBMITTAL | <input checked="" type="checkbox"/> AS BUILT |
| <input type="checkbox"/> PRELIMINARY | <input type="checkbox"/> OTHER: |

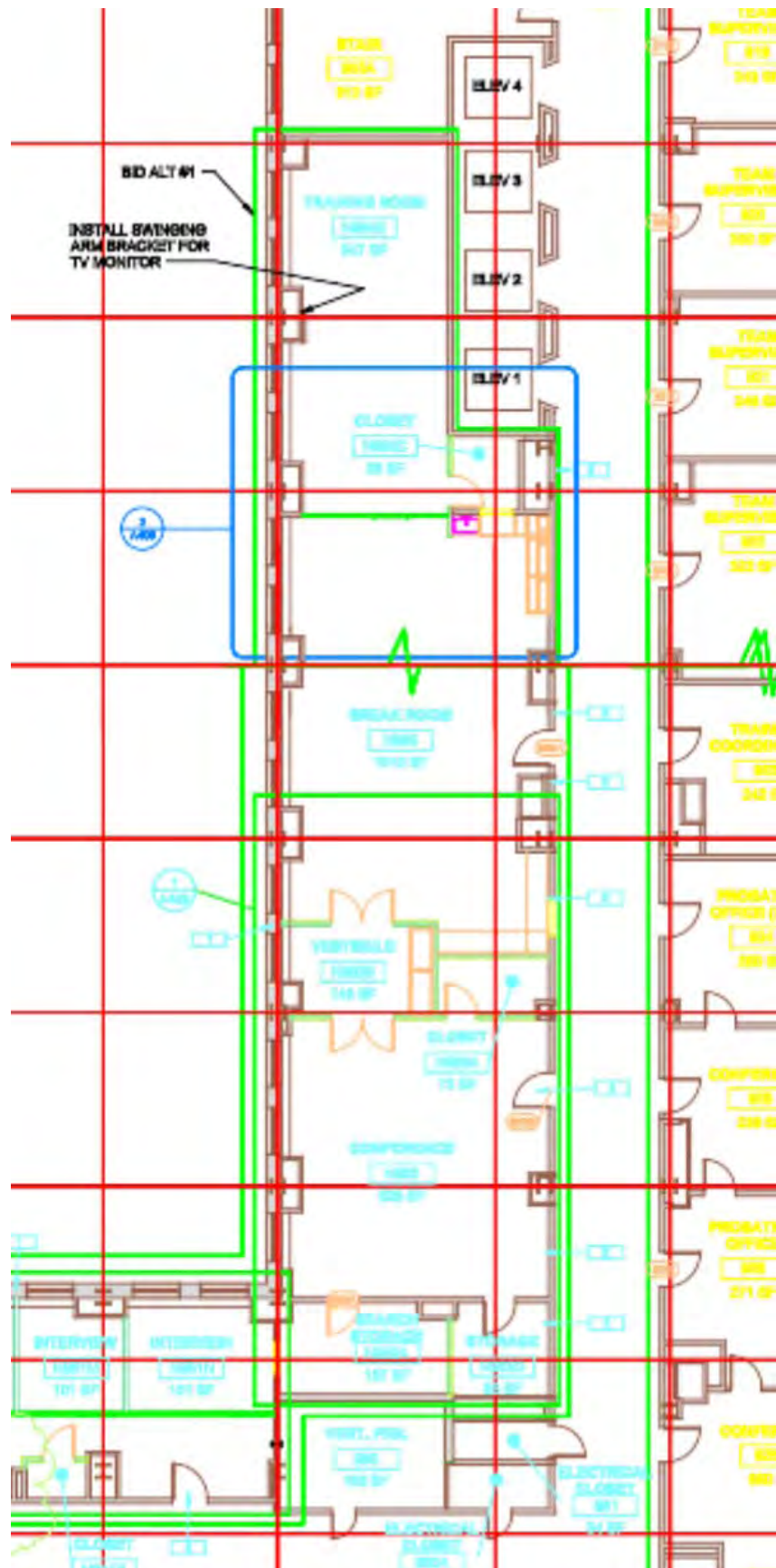
[illegible]

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ISSUE: AS BUILT
CLIENT: US DISTRICT COURT
PROJECT #: 15231
ENGINEER: SD
DRAFTER: R. DOANEY
CHECKED BY:
SCALE: N/A
STATION ID #:
FILE NAME: 15231_ILAND
PROJECT NAME:
**PROBATION
CONFERENCE ROOM**
SHEET TITLE:
POWER FLOW DIAGRAM
DWG NUMBER:

AV704





TLUSCH Probation 9th Flr_Training Area.dwg

